

KOCHANOVSKIY, N.Ya., kand.tekhn.nauk, red.; GROMYKO, I.G., red.;
YEGOROVA, I.A., red.; TEREENT'YEV, Yu.Ya., red.; TOLUB'YEVA,
Ye.P., red.; ARIFMETCHIKOV, F.V., red.; RODIONOV, Yu.I., red.;
BALASHOV, V.I., tekhn.red.; BURLAKOVA, O.Z., tekhn.red.

[Welding equipment; catalog-handbook] Spravochnoe oborudo-
vanie; katalog-spravochnik. Moskva, TSentr. in-t nauchno-tekhn.
informatsii elektrotekhn.promyshl. i priborostroenia, 1960.
359 p. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochno-
nogo oborudovaniya (for Gromyko). 2. Gosudarstvennyy nauchno-
tekhnicheskyy komitet (for Arifmetchikov). 3. TSentral'nyy
institut nauchno-tekhnicheskoy informatsii (for Rodionov).
(Welding--Equipment and supplies)

KOCHANOVSKIY, N.Ya., kand.tekhn.nauk, red.; GROMYKO, L.G., red.;
YEGOROVA, I.A., red.; TEREENT'YEV, Yu.Ya., red.; TOLUB'YEVA,
Ye.P., red.; ARIFMETCHIKOV, F.V., red.; RODIONOV, Yu.I., red.;
BALASHOV, V.I., tekhn.red.; BURLAKOVA, O.Z., tekhn.red.

[Welding equipment; annotated catalog] Svarochnoe oborudo-
vanie; katalog-spravochnik. Moskva, TSentr.in-t nauchno-tekhn.
informatsii elektrotekhn.promyshl. i priborostroenia, 1960.
(MIRA 14:4)
359 p.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosva-
rochnogo oborudovaniya (for Gromyko, Yegorova, Terent'yev,
Tolub'yeva). 2. Gosudarstvennyy nauchno-tekhnicheskyy komitet
(for Arifmetchikov). 3. TSentral'nyy institut nauchno-tekhn-
icheskoy informatsii elektrotekhnicheskoy promyshlennosti i
priborostroyeniya (for Rodionov).
(Welding--Equipment and supplies)

SOV/110-59-8-24/24

AUTHOR: Rodionov, Yu.I., Engineer.

TITLE: An All-Union Conference on Mobile Power Stations and Power sets with Outputs of 0.5 to 200 kW.

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 8, pp 79-80 (USSR)

ABSTRACT: An All-Union Conference on the further development of the production of mobile power stations with outputs of 0.5 to 200 kW was held in Novosibirsk and was attended by representatives of GOSPLAN USSR, GOSPLAN RSFSR, the Scientific Technical Committee of the Councils of Ministers of the USSR and RSFSR, Councils of National Economy, a number of Ministries, Research Institutes, Design Offices, Factories and others. The reports of Yu. K. Bushmanov and B.A. Zil'bershteyn gave data about the probable development of the output of mobile power stations and supply sets for the period 1959-65. Questions of centralising the design and manufacture of particular types of equipment for mobile power stations were mentioned. Doctor of Technical Science A.G. Iosif'yan recounted work done to improve the technical characteristics of mobile power stations, particularly by

Card 1/3

SOV/110-59-8-24/24

An All-Union Conference on Mobile Power Stations and Power Sets with Outputs of 0.5 to 200 kW.

improved cooling methods. A new development is the production of free-piston engines in combination with gas turbines. The author indicated the prospects of using atomic power for mobile supplies. Engineer A.P. Golyukov described a newly-developed series of sets which are more reliable than the old ones and can be started up more quickly. After some further improvement these sets will be widely used in agriculture and forestry, remote oil-fields and so on. Candidate of Technical Sciences D.N. Bystritskiy reported upon the automation of mobile diesel power stations used in agriculture. Engineer Ye.A. Meyerovich described a standardised series of generators driven by petrol engines for single and three-phase supply. Engineer M. P. Belyakov reported on the development of gas turbines and their application to mobile power engineering. The need to centralise research and design work in this field was emphasised. Engineer V.V. Apsit described flywheel-type engine generators which are much lighter and simpler than standard generators. Engineer G.A. Anishchenko and Engineer V.P. Lebedev dealt with safety

Card 2/3

SOV/110-59-8-24/24

An All-Union Conference on Mobile Power Stations and Power Sets with Outputs of 0.5 to 200 kW.

requirements in connection with mobile power stations. Engineer V.A.Martirosyan described synchronous generators of up to 100 kW with excitation from selenium rectifiers. A further description of similar equipment was given by Engineer A.Ye Shvartsman. The conference requested GOSPLAN USSR and the GOSPLANS of the Union Republics to establish specialisation of Councils of National Economy on the manufacture of mobile power generating sets and also to specialise the Institutions concerned with the development of these sets.

Card 3/3

USCOMM-DC-61,535

Rodionov Yu. L.

RODIONOV, Yu. L.; LIL'YE, A., tekhnicheskiy redaktor

[Through Moscow; short guide] Po Moskve; kratkii putevoditel'.
[Moskva] "Moskovskii rabochii," 1954. 406 p. (MLRA 7:9)
(Moscow--Description)

RODIONOV, Yu

Po Moskve; Kratkiy Putevoditel' [In Moscow, Short Guide] Moskva, Moskovskiy
Rabochiy, 1954.
406 p. illus.

527R/5
621.121
.R6

BUI'YKH, Ye.B.; KOLOBOV, V.M.; SKOTNIKOV, Yu.A.; TIKHONOVICH, S.S.;
SHEPOVALOV, T.I.; KONOVALOVA, K.A., redaktor; RODIONOV, Yu.,
redaktor; LIL'YE, A., tekhnicheskiy redaktor

[Memorable places in Moscow Province] Pamiatnye mesta Moskovskoi
oblasti; kratkii putevoditel'. Izd. 2-e, dop. i perer. Sost. E.B.
Burykh i dr. [Moskva] Moskovskii rabochii, 1956. 606 p. (MLRA 9:7)

1. Moscow. Oblastnoy krayevedcheskiy muzey. 2. Zamestitel' pred-
sedatelya Moskovskogo oblastnogo obshchestva krayevedeniya (for
Konovalova)
(Moscow Province--Historic houses, etc.)

RODIONOV, Ye. M. (Engr.)

"On the Moment of Resistance to Rotation in Radial Ball Bearings of an Instrument." in book Some Problems in the Modern Technology of Instrument Making. Moscow, Oborongiz, 1957. 126 p. Aviatsionny Tekhnol. institut

This article deals with the analysis of relationships between the friction moment of ball bearings and the angular displacement of the revolving bearing ring. The author states that this problem has not been thoroughly investigated in the literature. He concludes that the friction moment in the radial ball bearing varies with angular displacement of the revolving ring, and that the radial clearance causes its excentric motion. This motion produces on additional moment of resistance to rotation and causes vibrations of bearings at high speeds which cannot be eliminated by balancing, thus introducing errors in the instrument. There is one Soviet reference.

XXXX

Rodionov, Yu. F.
BARANOV, S.A.; POLEVOY, R.M.; RODIONOV, Yu.F.; SHISHKIN, G.V.

Nuclear energy levels of Tm^{169} . Atom. energ. 3 no.9:256-257 3 '57.
(Thulium--Isotopes) (MLRA 10:9)

AUTHOR: BARANOV, S.A., POLEVOY, R.M., RODIONOV, Yu.F. 89-9-13/32
 SHISHKIN, G.V.
 TITLE: Nuclear Energy Levels of Tu^{169} . (Energeticheskiye urovni yadra Tu^{169})
 PERIODICAL: Atomnaya Energiya, 1957, Vol 3, Nr 9, pp 256-257 (U.S.S.R.)
 ABSTRACT: By means of a double-focusing β -spectrometer, a scintillation spectrometer, and a proportional aiming tube the γ -radiation of the nucleus Yb^{169} was measured and a random scheme was set up. The following γ -energy with the corresponding multipole order was found:

8,42 (M1 + E2)	130,48 (E2)
20,74 (M1)	156 ?
63,13 (E1)	177,21 (0,75 M1 + 0,25 E2)
93,62 (0,9 M1 + 0,1 E2)	197,97 (M1)
109,67 (M1)	240,6 (E1 ?)
118,20 (E2)	260,8 (E1 ?)
	307,7 (E2)

The above can be arranged in form of a scheme with the following level values (spin and parity in brackets):

Card 1/2

Nuclear Energy Levels of Tu^{169} .

89-9-13/32

0	(1/2)
8,42	(3/2 ±)
118,20	(5/2 ±)
138,90	(7/2 ±)
316,06	(7/2 ±)
379,19	(7/2 ±)
472,8	(9/2 -)
	+

(With 2 Slavic References).

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED: 15.4.1957
AVAILABLE: Library of Congress
Card 2/2

SOV/56-74-6-2/51

AUTHORS: Baranov, S. A., Rodionov, Yu. F., Shishkin, G. V.,
Chistyakov, L. V.

TITLE: The Energy Levels of the Dy¹⁶¹ Nucleus (Energeticheskiye
urovni yadra Dy¹⁶¹)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol 34, No 6, pp 1367-1380 (USSR)

ABSTRACT: First, the authors mention the previous papers concerning
this subject. The purpose of this paper is a more accurate
investigation of the electron spectrum (including its low
energy part) and of the soft γ -radiation caused by the de-
cay of Tb¹⁶¹. The electron spectrum of Tb¹⁶¹ was investigated
by means of a magnetic β -spectrometer with double focusing
of the electron beam (Ref 11). The γ -radiation caused by the
decay of Tb¹⁶¹ was investigated by means of spectrometric
proportional counters. The experimental device and the pre-
paration of the radioactive source (Tb 161) is described in
a few lines. A diagram shows a great part of the β -spectrum
and the electron spectrum for the interval of the values of

Card 1/4

The Energy Levels of the Dy¹⁶¹ Nucleus

SOV/56-34-6-2/51

H α from 200 to 900 G.cm (obtained by means of the thin source) and from 780 to 980 G.cm (obtained by means of a more intense source). The authors observed some dozens of electron lines which are placed mainly in the low energy part of the spectrum, but they observed no (although if weak) high energy conversion lines. A table gives an interpretation of the conversion lines corresponding to the γ -transitions of the Dy¹⁶¹ nucleus and also the intensities for some lines. In the Curie (Kyuri) diagram one may discern 4 partial spectra the energy limits of which are given. The following part of this paper deals with the measurement by means of a spectrometric proportional counter and of a γ -spectrometer. A diagram shows the spectrum of the X-radiation and of the soft radiation of Dy¹⁶¹ plotted in the coordinates $(N, E_{X,\gamma})$ where N denotes the number of the pulses and $E_{X,\gamma}$ - the energy of the X- and γ -radiation (in keV) for 3 different measurement series. The next part of this paper deals with the determination of the multipole type of the γ -transitions. A table gives the experimental values of the absolute conversion coefficients for the γ -radiations with the energies 25,75; 48,9; 74,4 keV. The

Card 2/4

The energy levels of the Dy¹⁶¹ nucleus

101/56-31-2/51

γ -radiation with the energies 48,9 and 74,5 keV corresponds, respectively, to the magnetic and electrical dipole radiation. The construction of a scheme of the energy levels of the Dy¹⁶¹ nucleus on the basis of the experimental data leads to some difficulties. Some of the observed conversion lines and γ -lines cannot be explained in an unambiguous way. For the Dy¹⁶¹ nucleus energy levels with 15,0; 44 + 46; 48,9; 74,5; 84; 102; 103,8; 151,5; ~325 keV were found. A figure shows the possible scheme of the Dy¹⁶¹ nucleus, it was plotted according to the experimental data. But this scheme does not pretend to be a complete one. The authors thank P. N. Mamirovskiy, A. T. Baz', V. M. Strutinskiy, L. N. Loker, and D. F. Saretskiy for the participation in the discussion concerning this paper. They thank also I. A. Sliv who placed to the authors' disposal some new data concerning the conversion coefficients of L-subshell atoms. There are 5 figures, 4 tables, and 21 references, 5 of which are Soviet.

Card 3/4

The Energy Levels of the Dy¹⁶¹ Nucleus

SOV/50-34-6-2/51

SUBMITTED: March 13, 1958

Card 4/4

BARANOV, S.A.; POLEVOY, R.M.; RODIONOV, Yu.F.; SHISHKIN, G.V.;
SHUBKO, V.M.

[Radioactive decay of Th²³¹] Izuchenie radioaktivnogo ras-
pada Th²³¹. Moskva, In-t atomnoi energii AN SSSR, 1960. 22 p.
(MIRA 17:1)

Родиков, Ю. П.

48-7-3/21

AUTHORS: Baranov, S.A., Zelenkov, A.G., Rodionov, Yu.F.

TITLE: Ionization Chambers with Grids (Ionizatsionnaya kamera s setkoy)

PERIODICAL: Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7, pp. 913 - 917 (USSR)

ABSTRACT: In recent years a number of spectrometric devices of great light intensity were developed which are based on the ionizing action of radiations. The so-called ionization chambers with grids were widely spread. The action of the grid consists in the removal of the influence of the positive ions so that the electron impulse amplitude is not dependent on the direction of the particles flying out of the target wall. Figure 1 shows the scheme of the chamber, its construction guaranteeing the possibility of a mutual exchange of the four α -radioactive sources under maintenance of the physical test conditions. The impulses run from the gathering electrode to the amplifier inlet, then to the discriminator which permits to cut part of the impulse amplitude as well as to amplify the rest to the necessary quantity. From the discriminator the impulses go to the multichannel differential amplitude analyzer. The high light intensity is to be con-

Card 1/2

48-7-3/21

Ionization Chambers with Grids

sidered as general advantage of these chambers, their dissolving power as characteristic quality. Further the construction and the functioning of these chambers are described and explained in detail (figure 2 to 8). The dependence of the noise intensity on the incandescent voltage of the first incandescent lamp is represented by figure 2. The selection of the optimum frequency characteristic was carried out according to the minimum of the distribution width of the impulse amplitudes of α -particles of the polonium target wall (figures 3 and 4). The curves of the dependence of the impulse amplitudes on the voltage ratio on the chamber electrodes are to be seen on figure 5. Figure 6 gives the spectra of the α -particles of U^{235} , Pu^{239} , and Am^{241} which was used as standard. Figures 7 and 8 show the spectra of the α -particles of Th^{230} and Pu^{238} . This device is very useful for a number of works and especially for the analysis of micro-quantities of α -active isotopes. There are 8 figures and 7 references, 1 of which is Slavic.

AVAILABLE:

Library of Congress

Card 2/2

S/056/31770/61/041/006/009/054
B108/B138

24.6300

AUTHORS:

Baranov, S. A., Samoylov, P. S., Rodionov, Yu. F.,
Belen'kiy, S. N., Pirozhkov, S. V.

TITLE:

The energy levels of the U^{232} nucleus

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,
no. 6(12), 1961, 1740-1747

TEXT: To clearing contradictions in data on the U^{232} levels the authors studied the decay of Pa^{232} , which was obtained by irradiating Pa^{231} with slow neutrons. The measurements were made with a magnetic double-focusing β -spectrometer and a γ -scintillation spectrometer. Four new gamma transitions with energies 147, 236, 280, and 1150 keV have been discovered. On the basis of the β -spectrum, conversion electron spectrum, and γ -spectrum, certain data on the gamma transitions in U^{232} have been obtained (Table 3). It was not possible, however, to establish a complete level scheme. EO transitions were found between the levels $0_2^+ \rightarrow 0_1^+$ and

S
L
(3
*
L s
vnu
Izd.
coef
Conv.
Card

Card 1/2

... one K and
... AN SSSR, and part 1,
... of the internal conversion
... from Ref. 7 (M. E. Rose. Internal
... Amsterdam, 1958).

31770

S/056/61/041/006/009/054
B108/B138

The energy levels of the...

$2_2^+ \rightarrow 2_1^+$. The experimental results agree with theoretical predictions.

Mention is made of A. S. Davydov, G. F. Filippov, V. S. Rostovskiy, and A. A. Chaban (ZhETF, 35, 440, 1958; Nucl. Phys., 20, 499, 1960).

G. V. Shishkin, A. A. Arutyunov, and Yu. A. Dmitriyev are thanked for help. There are 4 figures, 3 tables, and 13 references: 7 Soviet and 6 non-Soviet. The two most recent references to English-language publications read as follows: J. Perlman. Proc. Intern. Conf. on Nucl. Structure, Kingston, Canada, 1960, p. 547; S. Björnholm et al. Bull. Am. Phys. Soc., 6, 239, 1961.

SUBMITTED: June 21, 1961

Legend to Table 3: (1) energy of the γ -transitions, kev, (2) experiment, (3) theory for, (4) theory, (5) multipolarity of the γ -transition.

* theoretical values of the internal conversion coefficients on the K and L shells taken from Ref. 6 (L. A. Sliv, I. M. Band. Tablitsa koeffitsienty vnutrenney konversii γ -izlucheniya, part 2, Izd. AN SSSR, and part 1, Izd. AN SSSR, 1956). ** theoretical values of the internal conversion coefficients on the M shells taken from Ref. 7 (M. E. Rose. Internal Conversion Coefficients, Amsterdam, 1958).

Card 2/3 2

18.5100,18.7100

77169
SOV/129-60-1-17/22

AUTHOR: Rodionov, Yu. I. (Engineer)

TITLE: An Installation for Bright Wire Annealing During High Speed Drawing

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1960, Nr 1, pp 52-53 (USSR)

ABSTRACT: An installation for bright annealing of wire during high speed drawing, designed by the author (Authors Certificate Nr 110587) is shown in Figs. 1 and 2. The electrical part of the device consists of a transformer-type core with windings on each core. The winding of one core is connected to a 380/220 v a-c line. The current of the secondary winding heats the short-circuited coils of the annealed wire which forms the secondary winding. The primary winding is divided into sections controlling the degree of heating. The annealing drum is installed in the housing with protective atmosphere or cooling water. The speed of wire drawing must be the same

Card 1/3

An Installation for Bright Wire Annealing
During High Speed Drawing

77169
SOV/129-60-1-17/22

as the speed of wire annealing, i.e., 12 m/sec.
The installation can be placed at any distance from
the wire-drawing machine. There are 2 figures.

Card 3/3

An Installation for Bright Wire Annealing
During High Speed Drawing

77169
SOV/129-60-1-17/22

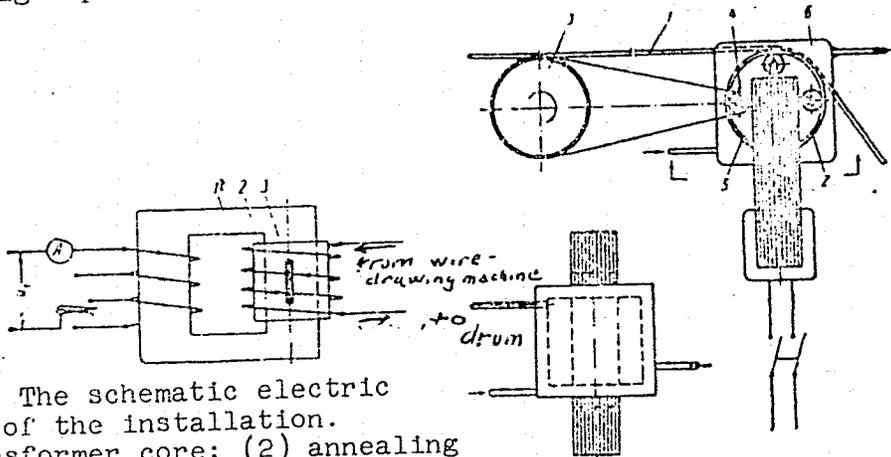


Fig. 1. The schematic electric diagram of the installation.
(1) Transformer core; (2) annealing drum; (3) copper plate.

Fig. 2. Schematic diagram showing the operation of the unit for wire annealing during drawing. (1) Wire; (2) annealing drum; (3) and (4) pulleys with driving belt; (5) copper insert; (6) housing.

Card 2/3

SOV/110-59-6-22/24

AUTHORS: Kyuns, S.A., Engineer and Rodionov, Yu.I., Engineer

TITLE: An All-Union Conference on Electrical Equipment for Drilling Oil and Gas Wells (Vsesoyuznoye soveshchaniye po elektrooborudovaniyu dlya bureniya neftyanykh i gazovykh skvazhin)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 74-78(USSR)

ABSTRACT: An All-Union Conference on electrical equipment for drilling oil and gas wells, organised by GOSPLAN USSR, the State Scientific Technical Committee of the Council of Ministers of the Azerbaydzhan SSR and the TsBTI of the Scientific Research Institute of the Electro-Technical Industry, was held in Baku. The conference was attended by representatives of Councils of National Economy, Oil Field Managements, manufacturers of drilling equipment and associated electrical equipment, scientific research institutes and design offices. The conference considered the operation and design of electrical drilling equipment for oil wells. The report of Candidate of Technical Sciences L.I.Shturman stated the requirements of the oil industry for electrical drilling equipment. This is a general review of

Card 1/4

SOV/110-59-6-22/24

An All-Union Conference on Electrical Equipment for Drilling Oil
and Gas Wells

requirements. Engineer T.Z.Portnoy described the recent progress of the electrical manufacturers and design offices in respect of electrical drilling equipment. Engineer V.N.Yevzlin reported on the present development work of electrical manufacturers for the oil industry in the Baku Electrical Engineering Works and gave future prospects. Professor A.A.Efendi-Zade described recent scientific research work on automatic drillings. Engineer F.M.Akhundov enumerated a number of scientific investigations that it is proposed to make in the next seven years. Engineer B.Z.Dobrushin described several new types of electric drill. Engineer Yu.P.Nikulin described operating experience with electric drills on the oilfields of Bashkiria. Engineer Yu.A.Safarov recounted operating experience with electrical drills in the oilfields of Azerbaydzhan and the development of a new method of using an electric drill in oil-well pipings. Engineer F.N.Fomenko gave technical data of a newly-developed

Card 2/4

SOV/110-59-6-22/24

An All-Union Conference on Electrical Equipment for Drilling Oil
and Gas Wells

type of electric drill. Engineer N.K.Arkhangel'skiy described the prospective development of electric drilling and reviewed the problems of the electrical industry in this direction. K.N.Kuli-Zade gave a detailed description of the procedure of standardising electric power consumption in drilling. Engineer M.G.Eskin gave a report on semi-automatic electrical machines for feeding the bit for new drilling installations. Engineer Yu.S.Kengerlinskiy described the results of an investigation of systems of automatic feed with rotor drilling. Engineer A.G.Yefanov spoke on the application of grid-controlled mercury-arc rectifiers for supply to drilling equipment. Engineer V.G.Rogachev described the use of high-voltage drive for winches and pumps. A number of reports were read on automatic feeding of the bit in the well, on complex automation of drilling rigs and on increasing the reliability of electric drilling equipment. There were 20 participants in the discussion. Although the method

Card 3/4

SOV/110-59-6-22/24

An All-Union Conference on Electrical Equipment for Drilling Oil
and Gas Wells

of electric drilling was considered to be very promising, particularly for very deep wells, the method is still not being as widely used as it should be. Production of electric drills is not yet adequate. Great interest was shown in the contribution by A.G.Ogarkov and V.P.Vlaskin, drillers from the Groznyy field, about their use of squirrel-cage induction motors in drilling. In its decisions the conference noted the need to improve the coordination of research and experimental design work to create new types of automatic equipment and electrical drilling equipment. A number of recommendations were made to improve and extend the production of the latter. A symposium of the reports will soon be published by the Central Bureau of Technical Information of the electrical industry.

Card 4/4

RODIONOV, Yu.N.

Number indicator readings of decastrons. Prib. i tekhn. eksp.
9 no.4:143-147 JI-Ag '64. (MIRA 17:12)

ACC NR: AP7002828 SOURCE CODE: UR/0142/66/009/006/0735/0741
AUTHOR: Rodionov, Yu.P.; Stepanenko, I.P.; Tarasov, V.P.
ORG: none
TITLE: A transistorized model of nonlinear capacitors
SOURCE: IVUZ. Radiotekhnika, v. 9, no. 6, 1966, 735-741
TOPIC TAGS: electronically variable capacitor, transistorized circuit, test model

ABSTRACT:

A transistorized circuit that is a model of high-Q nonlinear voltage-controlled capacitors with a high ratio of maximum-to-minimum capacitance is described. The circuit consists of a transistorized three-stage feedback amplifier which contains no inductive components. The equivalent input impedance and Q-factor of the circuit are controlled by the input voltage. The shape of the circuit volt-capacitance characteristics can easily be changed to resemble various complex shapes—a dome shape, for example. High-frequency transistors must be used in the circuit to obtain the best frequency characteristics. The volt-capacitance characteristics of the circuit resemble

Card 1/2

UDC: 621.382.31

ACC NR: AP7002828

those for surface-charge barrier capacitors. Actually, only the reactive (capacitive) component of the circuit input impedance is voltage-variable. The variation range of the circuit capacitance ($C_{max}-C_{min}$) is significantly smaller than that for actual capacitors. This constitutes a significant advantage over actual capacitors. [IV]

SUB CODE: 09/ SUBM DATE: 04Apr66/ ORIG REF: 004/ ATD PRESS: 5114

Card 2/2

ACC NR: AP7002024

(A)

SOURCE CODE: UR/0142/66/009/005/0652/0655

AUTHOR: Rodionov, Yu. P.; Tarasov, V. P.

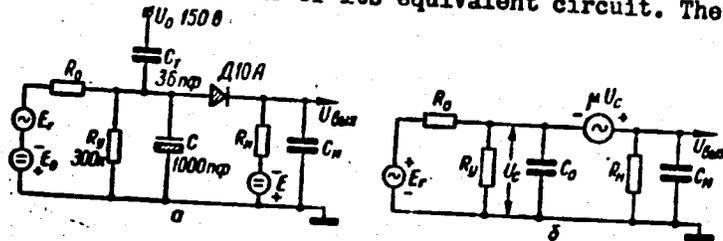
ORG: none

TITLE: Studying the RC-amplifier by means of a nonlinear-capacitance transistor model

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 5, 1966, 652-655

TOPIC TAGS: electronic amplifier, RC amplifier, amplifier design, voltage amplifier

ABSTRACT: The RC-amplifier with parallel connection of nonlinear capacitance and load (see figure) is theoretically analyzed on the basis of its equivalent circuit. The amplifier was investigated experimentally by means of a transistor model at a pumping frequency of 200 kc. It is found that: (1) The above amplifier does not reverse the incoming-signal phase and amplifies voltage only if $R_{load} > R_{in}$; thus, it cannot be cascade-connected; (2) The upper cutoff frequency of the amplifier is determined by the nonlinear-capacitance parameters



Physical RC-amplifier circuits Equivalent

Card 1/2

UDC:621.375.1

ACC NR: AP7002024

and R_{leak} , by the load capacitance and resistance, and by the decoupling resistance (between the sources of power supply and signal); (3) The input impedance of the amplifier is capacitive. Orig. art. has: 3 figures and 14 formulas.

SUB CODE: 09 / SUBM DATE: 04Apr66 / ORIG REF: 001

Card 2/2

ACC NR: AP6033214 SOURCE CODE: UR/0142/66/009/004/0466/0473

AUTHOR: Pavlov, Ye. A.; Rodionov, Yu. P.

ORG: none

TITLE: A study of an equivalent circuit of a varactor with an aluminum—titanium dioxide—silicon structure

SOURCE: IVUZ. Radiotekhnika, v. 9, no. 4, 1966, 466-473

TOPIC TAGS: varactor diode, semiconductor diode, *dielectric layer, electronic circuit*

ABSTRACT: The equivalent circuit of a surface-charge varactor diode is studied. The varactor consists of a vacuum-deposited aluminum layer, a titanium dioxide dielectric film, and n-type silicon. Frequency dependence of the varactor capacitance (c), the loss resistance (R_n , in parallel with c) and the Q-factor were measured; the possibility of determining some of the equivalent circuit parameters was also examined. A previously derived equivalent circuit (see Fig. 1) with the following parameters was used: C_f , dielectric film capacitance; C_{sc} , capacitance determined by surface space-charge; C'_{ss} , capacitance based on fast surface conditions; C''_{ss} , capacitance based on slow surface conditions; R'_{ss} , resistance of fast surface conditions; R''_{ss} , resistance of slow surface conditions; R_{yt} , leakage resistance; R_{sc} , resistance of space-

Card 1/2

UDC: 621.382.012.8

ACC NR. AP6033214

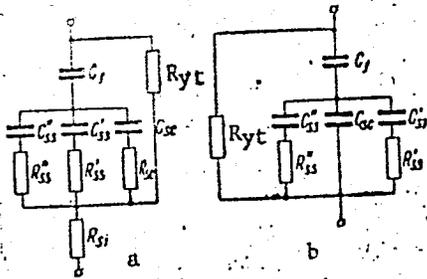


Fig. 1. Simplified varactor equivalent circuits

charge region; and R_{si} , semiconductor bulk resistance. The parameters were measured in the frequency range from 10 kc to 20 Mc with an a-c bridge capable of applying constant bias voltage to the varactor. Capacitance C decreases with frequency; the decrease varies with bias voltage. Resistance R decreases non-linearly with frequency. Parameters C_{sc} , C_{cs} , R_{yt} and R_{ss} depend either on frequency, bias voltages, or both. Their values for bias voltages of zero and $-7v$ were compared: R_{yt} remains constant; C_{cs} and R_{ss} change, indicating that surface conditions are determined by the potential of semiconductor surfaces. Orig. art. has: 9 figures and 7 formulas.

SUB CODE: 09/ SUBM DATE: 05Mar65/ ORIG REF: 002/ OTH REF: 007

Card 2/2

L 55112-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5014884

UR/0142/65/008/002/0213/0221
621.382

13
B

AUTHOR: Kuznetskiy, V. V.; Nifontov, N. G.; Rodionov, Yu. P.; Rudnev, V. V.

TITLE: Investigation of a surface varactor having a metal-titanium-dioxide-silicon structure

SOURCE: ⁿIVUZ. Radiotekhnika, v. 8, no. 2, 1965, 213-221

TOPIC TAGS: varactor, metal titanium dioxide silicon varactor

ABSTRACT: The principle of operation of a surface varactor is examined. The following parameters of surface varactors with a titanium dioxide dielectric are measured: capacitance vs frequency (10^3-10^6 cps) at zero bias; capacitance vs bias voltage ($-4+5$ v) at $10^3, 10^4, 10^5, 10^6$ cps; loss resistance vs bias voltage ($-3+1$ v) at 10^4-10^6 cps. Q-factor vs frequency and vs bias voltage curves were estimated from the above measured data. It is found that: 1) The capacitance-range factor

Card 1/2

L 55112-65

ACCESSION NR: AP5014884

reaches high values of about 15 or 20, and in some specimens, over 100. 2) The varactor capacitance decreases with the increasing frequency, but starting from 10^6 cps, the capacitance remains practically constant, 3) The loss resistance is nonlinear and frequency dependent, 4) The Q-factor is very low (2-9) within the actual capacitance-variation range. Orig. art. has: 10 figures. [03]

ASSOCIATION: none

SUBMITTED: 07Oct64

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 010

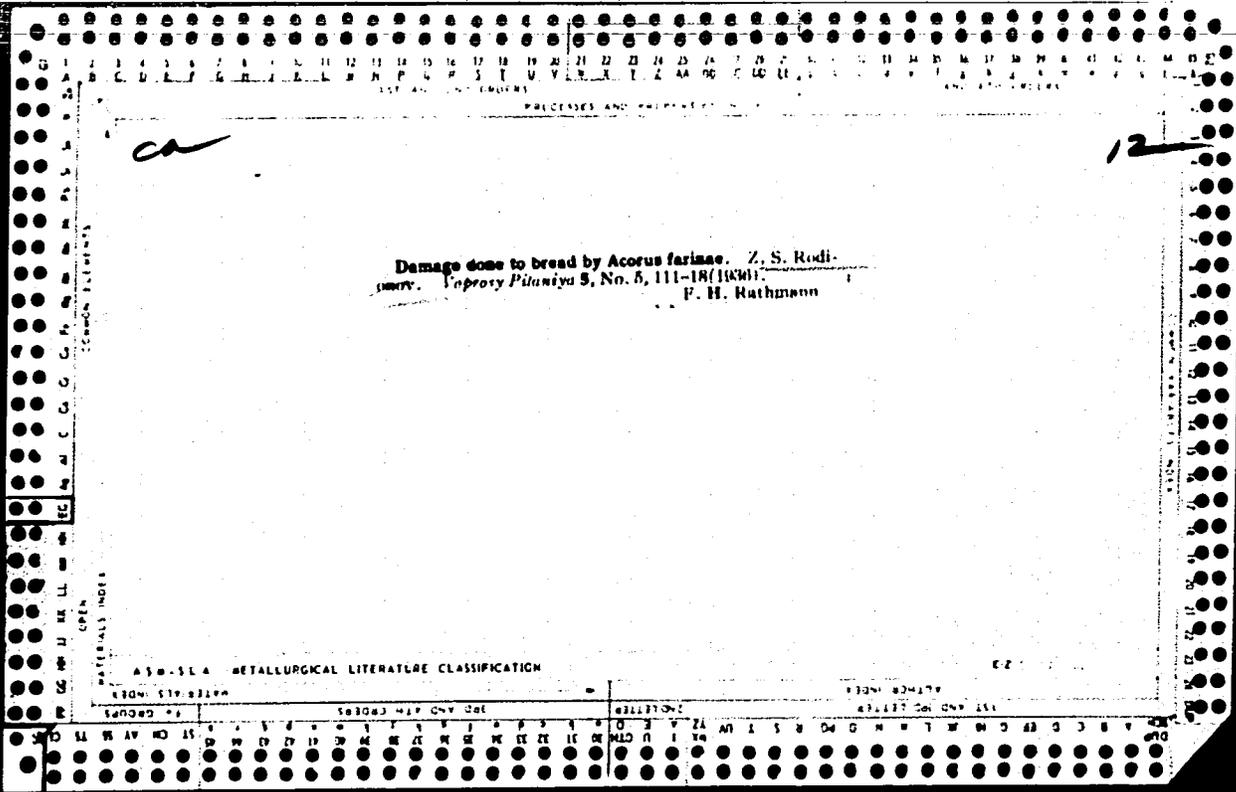
ATD PRESS: 4024

Card 2/2

RODIONOV, Z.

Z. Rodionov, "The Problem of Sulfur," Sbornik Vsesoiuznogo Instituta Zashchity Rastenii, no. 4, 1932, pp. 130-132. 464.9 L542

SO: Sira Si 90-53, 15 Dec 1953



RODIONOV-KUZNETSOV, G.V., inzh.

Graphic method of plotting curves equivalent to the illumination pattern of a floodlight. Svetotekhnika 5 no.9: 23-25 S '59. (MIRA 13:2)

1. Moskovskiy elektrotekhnicheskii institut svyazi.
(Electric lighting)

SEMENOVA, L.M.; RODIONOVA, A.N.

Specific features of the cuticle of aquatic larvae of insects as related to their conditions of life. Zhur. ob. biol. 22 no.2:128-135 Mr-Apr '61. (MIRA 14:5)

1. A.N. Severtzov Institute of Animal Morphology, U.S.S.R. Academy of Sciences.

(INSECTS, AQUATIC)
(SKIN)

(LARVAE—INSECTS)

KHVESHCHENKO, Ye.N.; PADALKO, Z.F.; DEVYATOVA, A.P.; RODIONOVA, A.P.;
MIROTVORTSEV, Yu.I.; MIRGORODSKIY, N.T.

Detection of tularemia in Maritime Territory. Zhur.mikrobiol., epid.
i immun. 42 no.4:12-13 Ap '65. (MIRA 18:5)

1. Primorskaya krayevaya protivochumnaya stantsiya.

POLYANSKIY N.G.; VISHNEVSKAYA, V.I.; RODIONOVA, A.P.

Complexometric determination of the value of the exchange capacity of sulfonated cationites. *Izv.vys.ucheb.zav.; khim.i khim tekh.* 3 no.1:96-98 '60. (MIRA 13:6)

1. Kafedra yestestvoznaniya Daugavpolsskogo gosudarstvennogo pedagogicheskogo instituta.
(Ion exchange)

L 20313-66 EWT(1)/T JK

ACCESSION NR: AP5011269

UR/0016/65/000/004/0012/0013

AUTHOR: Khveshchenko, Ye. N.; Padalko, Z. F.; Devyatova, A. P.; //
Rodionova, A. P.; Mirgtvortsev, Yu. I.; Mirgorodskiy, N. T. BTITLE: Tularemia detection in Primorskiy kraySOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii,
no. 4, 1965, 12-13TOPIC TAGS: man, tularemia, Primorskiy kray, serologic test,
natural focus, rodent, tick

ABSTRACT: The first case of tularemia in Primorskiy Kray was reported in 1963 in the Ussurisk district, but no evidence of tularemia natural foci has been found to date by the Primorskiy Anti plague Station. On the basis of clinical symptoms, the case of a 56 yr old patient, a native of the area, was diagnosed as an eye-bubonic form of tularemia. The patient's tularin intradermal test proved positive and agglutination reaction was markedly positive with a titer of 1:400. A tularemia culture was not isolated. The patient was hospitalized in an infectious disease hospital and treated with

Card 1/2

L 20313-66

ACCESSION NR: AP5011269

streptomycin. The patient was reexamined 3 mos after recovery at which time the agglutination reaction titer was 1:3200. It is assumed that the infection was transmitted through the water of the Lyuchikheza River in which the patient frequently washed. Intradermal tularin tests administered to village residents disclosed positive reactions in 18 persons, two of whom may be considered infected. The presence of various rodents and ticks in the area indicate that the extensive bacteriological investigation of the Antiplague Station should be continued to determine the natural foci of tularemia. Orig. art. has: None.

ASSOCIATION: Primorskaya krayevaya protivochumnaya stantsiya
(Primorskiy Kray Antiplague Station)

SUBMITTED: 02Mar64

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 000

Card 2/2 BK

RODIONOVA, Alla Sergeevna, kand. biol. nauk; ANDRONOV, N.M., dots.,
retsenzent; ZAYTSEV, G.N., kand. biol. nauk, retsenzent;
BEZGODOVA, L.V., red.; URITSKAYA, A.D., tekhn. red.

[Botany] Botanika; uchebnoe posobie dlia studentov lesokhoziai-
stvennogo fakul'teta. Leningrad, Vses.zaachnyi lesotekh.
in-t, 1962. 201 p. (MIRA 16:2)

(Botany)

RODIONOVA, A. S.

Rodionova, A. S. - "The Geobotanical Foundations of the Rational Use and Improvement of the Natural Fodder Base of the 'Leninskiy put' Kolkhoz, Oredezh Region, Leningrad Oblast." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Leningrad, 1956 (Dissertation for the Degree of Candidate in Biological Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

RODIONOVA, A.S.

Meadow-steppe elements in the flood plain of the Oredez River in
Leningrad Province. Bot.zhur. 44 no.12:1734-1736 D '59.

(MIRA 13:4)

(Oredzh Valley--Pastures and meadows)

MIRONOV, N.P.; NEL'ZINA, Ye.N.; KLIMCHENKO, I.Z.; REZINKO, D.S.; CHERNOVA, N.I.;
DANILOVA, G.M.; SAMARINA, G.P.; RODIONOVA, A.V. -

Spatial distribution of fleas in the burrows of the lesser
suslik (*Citellus pygmaeus*) and efficient methods of estimating
their abundance. Zool. zhur. 42 no.3:384-394 '63.

(MIRA 17:1)

1. Rostov-on-Don Research Anti-Plague Institute, and Astrakhan
Anti-Plague Station.

AZAROV, K.P.; BALANDINA, V.V.; CHISTOVA, Ye.M.; RODIONOVA, A.V.

Crystallization of titanium phosphate enamels. Izv.vys.ucheb.zav.:-
khim.i khim.tekh. 4 no.4:647-650 '61. (MIRA 15:1)

1. Novocherkasskiy politekhnicheskii institut imeni Ordzhonikidze,
laboratoriya emaley.
(Enamel and enameling) (Titanium phosphate)

RODIONOVA, A.Ye.; KOBILEV, A.G.; OVCHARENKO, P.P.

Chemical methods for determining the free silicon dioxide content
of rocks. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 6 no.3:
518-521 '63. (MIRA 16:8)

1. Novocherkasskiy politekhnicheskiy institut, kafedra
kristallografii, mineralogii i petrografii.
(Silica) (Rocks--Analysis)

КОБИЛЕВ, А.Я.; КОБИЛЕВ, А.Г.

Effect of disintegration of argillaceous rocks on the results
of X-ray analysis. Zap. Vses. min. ob-va 92 no.6 740-745 '63.
(MIRA 18:3)

1. Kafedra kristallografii, mineralogii i petrografii Novocher-
kasskogo politekhnicheskogo instituta.

RODIONOVA, A. Ye., Cand Geol^h-~~Lin~~ Sci --(diss) " Lithology of the
formation ^{the} C₂ of the eastern part of Bol'shoy Donbass." Novoch^rerkask, 1957
Polytech Inst 22 pp (Min of Higher Education USSR, Novocherkask Polytech
Inst in Sergo Ordzhonikidze) 130 copies (RL, 24-58, 117)

RODIONOV, A.I.; KOVAL', Zh.A.; BOZHOV, I.S.

Testing turbogrid-type sieve plates with perforations of two
different diameters. Zhur.prikl.khim. 35 no.2:357-361 F '62.
(MIRA 15:2)

1. Moskovskiy khimiko--tehnologicheskii institut imeni
D.I.Mendeleyeva.

(Plate towers)

Rodionova, E. F.

U D S R .

Polymerization of dimethacrylate esters of glycols. A. A. Berlin, E. F. Rodionova, and A. K. Dabakova. *Sbornik Statei Obshchestva Khim. Nauk* 4:1654-9 (1953); cf. following abstr.

The following esters were prepd. from $\text{CH}_2=\text{C}(\text{Me})\text{COCl}$ and the various glycols at 0° in the presence of 25% NaOH and a small amt. of Cu_2Cl_2 stabilizer; the yields of 55-80% dropped to 35-40% when NaOH was replaced by pyridine:

($\text{CH}_2=\text{C}(\text{Me})\text{CO}, \text{CH}_2(\text{O})_2$), b: 83° , d_{20}^{20} : 1.0433, n_D^{20} : 1.4545;
 ($\text{CH}_2=\text{C}(\text{Me})\text{CO}, \text{CH}_2(\text{O})_2$), b: 134° , d_{20}^{20} : 1.0083, n_D^{20} : 1.4595;
 ($\text{CH}_2=\text{C}(\text{Me})\text{CO}, \text{CH}_2(\text{O})_2$), b: 158° , d_{20}^{20} : 1.0922, n_D^{20} : 1.4821.

These were polymerized in the presence of 0.1-1.0% Bz_2O_2 in boiling MeOH, using both dilatometric and wt. methods for following the rate of polymerization. The rate of 3-dimensional polymerization was found to rise with increase of spacing between the unsatd. groups of the monomers, a fact contrary to that found among diallyl deriva. Polymerizations of I and II ($\text{CH}_2=\text{C}(\text{Me})\text{CO}, \text{CH}_2(\text{O})_2$) proceed through formation of a branched, sol. polymer which has double bonds (β -polymer), which then forms the 3-dimensional product. The intermediate was isolated by treatment with Me_2CO and pptn. with MeOH. Good correspondence was found to exist between detns. of polymer formation by dilatometric and gravimetric methods in this series. The kinetic curves are shown.

G. M. K.

M. R. 2/29

KCP/ANOVH, C 1

USSR ↓

✓ Three dimensional polymerization of allyl ethers and mixed allyl ethers of methacrylic esters of glycols. A. A. Berlin, A. K. Dubarova, and E. E. Rodionova. *Sbornik State Obshchei Khim.* 2, 1500-5 (1953). Reaction of glycols with $\text{CH}_2=\text{C}(\text{Me})\text{COCl}$ or $\text{CH}_2=\text{CH}(\text{O})_2\text{CCl}$ in the presence of pyridine at -10° gave 60-70% of the following derivs.: $\text{CH}_2=\text{CHCH}_2\text{OCH}_2\text{CH}_2\text{OCCMe}$; $\text{CH}_2=\text{CH}$; b, 69-70°, d_4^{20} 0.9766, n_D^{20} 1.4400; $\text{CH}_2=\text{CHCH}_2\text{OCH}_2\text{CH}_2\text{OCH}_2\text{OCCMe}$; $\text{CH}_2=\text{CH}$; b, 85-8°, d_4^{20} 1.0270, n_D^{20} 1.4538; $\text{CH}_2=\text{CHCH}_2\text{O}(\text{CH}_2\text{CH}_2\text{O})_2\text{CH}_2\text{OCCMe}$; $\text{CH}_2=\text{CH}$, b. undetd. owing to polymerization, d_4^{20} 1.0550, n_D^{20} 1.4587; $\text{CH}_2=\text{C}(\text{Me})\text{COCH}_2\text{CH}_2\text{OCC}(\text{CH}_2\text{CH}_2\text{O})_2\text{CH}_2\text{OCCMe}$; b, 100°, d_4^{20} 1.0820, n_D^{20} 1.4500; $\text{CH}_2=\text{C}(\text{Me})\text{CO}(\text{CH}_2)_2\text{O}(\text{CH}_2)_2\text{COCH}_2\text{CH}_2\text{OCCMe}$; b, 119-20°, d_4^{20} 1.1020, n_D^{20} 1.4580; $\text{CH}_2=\text{C}(\text{Me})\text{CO}(\text{CH}_2\text{CH}_2\text{O})_2\text{COCH}_2\text{CH}_2\text{OCCMe}$; polymerizes on attempted distn., d_4^{20} 1.1070, n_D^{20} 1.4585; $(\text{CH}_2=\text{OCC}(\text{CH}_2\text{CH}_2\text{O})_2\text{CH}_2\text{OCCMe})_2$; b, 127.5°, d_4^{20} 1.1210, n_D^{20} 1.4445; $(\text{CH}_2=\text{OCC}(\text{CH}_2\text{CH}_2\text{O})_2\text{CCH}_2\text{CH}_2\text{OCCMe})_2$; b, 161°, d_4^{20} 1.1400, n_D^{20} 1.4516; $\text{CH}_2=\text{CHCH}_2\text{OCH}_2\text{CH}_2\text{OCC}(\text{CH}_2\text{CH}_2\text{O})_2\text{CH}_2\text{OCCMe}$; b, 85.5°, d_4^{20} 1.0384, n_D^{20} 1.4416. The intermediate allyl ethers were prepd. from RCl or RBr and the corresponding Na deriv. of the glycols; $\text{HOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCCMe}$ (I), b. 159-60°, d_4^{20} 0.9526, n_D^{20} 1.4355; $\text{HO}(\text{CH}_2\text{CH}_2\text{O})_2\text{CH}_2\text{CH}_2\text{OCCMe}$; b, 98-101°, d_4^{20} 1.012, n_D^{20} 1.4440; $\text{HO}(\text{CH}_2\text{CH}_2\text{O})_3\text{CH}_2\text{CH}_2\text{OCCMe}$; b, 116-18°, d_4^{20} 1.0099, n_D^{20} 1.4530. Passage of ethylene oxide into $\text{CH}_2=\text{CHCH}_2\text{OH}$ and 3% concd. H_2SO_4 at 50-80° gave 50-5% yield of I. Polymerization of these esters were run in pure state and in 25% MeOH solns. The results, given graphically, show the following. The methacrylic-allyl derivs. of the glycols and methacrylic-"carballylic" derivs. polymerize more rapidly than do "biscarballylic" or allyl "carballylic" derivs. Generally the increase of the distance between the functional groups of the above esters leads to increase rate of 3-dimensional polymerization; in "biscarballylic" esters this relationship is reversed. The principal factor affecting the rate of polymerization in MeOH is the steric factor which establishes the distance between the functional groups of the monomer. 47. M. K.

M. K.

FISHCHEVA, T.; RODIONOVA, F.

New books of the State Publishing House for Pedagogical Literature.
Geog. v shkole 25 no.5:14,35,76 S-0 '62. (MIRA 15:9)
(Bibliography—Geography)

RODIONOVA, F.

"Development of geography lessons on continents" by B. A. Kondrat'ev,
S.A.Smirnov; "Northern Caucasus" by E.P.Maslov. Reviewed by F.
Rodionova. Geog. v shkole 25 no.2:37 Mr-Apr '62. (MIRA 15:2)
(Geography--Study and teaching)
(Caucasus, Northern--Description and travel)
(Kondrat'ev, B.A.) (Smirnov, S.A.) (Maslov, E.P.)

RODIONOVA, F.

"Geography of the branches of the U.S.S.R. national economy in
the seven-year plan" by A.S.Poliakov. Reviewed by F.Rodionova.
Geog. v shkole 25 no.4:15 J1-Ag '62. (MIRA 15:8)
(Geography, Economic) (Poliakov, A.S.)

RAUSH, Vora Aleksandrovna; YUZEFOVICH, Yevgeniya Filippovna;
RODIONOVA, F.A., red.; SHIBANOVA, A.A., red.; KARPOVA, T.V.,
tekh. red.

[Reader on physical geography; textbook for teachers] Khre-
stomatia po fizicheskoi geografii; posobie dlia uchitelei.
Moskva, Uchpedgiz, 1961. 334 p. (MIRA 15:7)
(Physical geography)

TROPOVITSYN, Valerian Anatol'yevich; RODIONOVA, F.A., redaktor; MAKHOVA,
N.N., tekhnicheskii redaktor.

[Geography excursions for secondary schools; from the experience
of schools in Ivanov, Leningrad, Lipets and Orlov Provinces]
Ekskursii po geografii v srednei shkole; iz opyta raboty shkol
Ivanovskoi, Leningradskoi, Lipetskoi i Orlovskoi oblasti. Moskva,
Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR,
1954. 89 p. (Opyt peredovogo uchitelia) (MIRA 8:5)

(Geography--Study and teaching)

ZASLAVSKIY, I.I.; RODIONOVA, F.A., redaktor; ZAYTSEVA, K.F., redaktor
kart; PETROVA, M.D., tekhnicheskiiy redaktor.

[The map in geography lessons; experience of a teacher of School
No. 315 in Moscow] Karta na urokakh geografii; iz opyta raboty uchi-
teliia shkoly no. 315 g. Moskvy. Moskva, Gos. uchebno-pedagog. izd-vo
Ministerstva prosveshcheniia RSFSR, 1954. 125 p. (MIRA 7:11)
(Geography--Study and teaching) (Maps)

SCHASTNEV, P.N. RODIONOVA, F.A., redaktor; DZHATIYEV, S.G., tekhnicheskiy redaktor

[Collection of problems and exercises in physical geography; manual for pedagogical institutions and secondary-school teachers] Sbornik zadach i uprazhnenii po fizicheskoi geografii; posobie dlia pedagog. uchilishch i uchitelei srednei shkoly. Izd. 3-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1954.
148 p. [Microfilm] (MLRA 8:2)
(Physical geography--Problems, exercises, etc.)

PAVLOV, M.Ya.; RODIONOVA, F.A., redaktor; SAKHAROVA, N.I., tekhnicheskii
redaktor

[Geography of the U.S.S.R.; textbook for pedagogical institutions]
Geografia SSSR; uchebnik dlia pedagogicheskikh uchilishch. Izd.
3-e, dop. i perer. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva
prosveshchenia RSFSR, 1954. 253 p. (MIRA 8:2)
(Geography)

АЛЛАМПИЙЕВ, П.М., кандидат географических наук, доцент; ГРИГОР'ЙЕВ, А.И., кандидат экономических наук; ЗМУЙДА, В.Б., кандидат экономических наук, доцент; ЛОЙТЕР, М.Н., кандидат технических наук; ЛЯЛИКОВ, Н.И., кандидат географических наук, доцент; НИКИТИН, Н.П., профессор; ТУТЫХИН, Б.А., кандидат географических наук, доцент; ЧЕРДАНТСЕВ, Глеб Никанорович, доктор экономических наук, профессор; ДЖАВАКHIШВИЛИ, А.А., профессор; ГВЕЛСИЯНИ, Г.Г., доцент; ГАЛКИН, П.Д., редактор; РОДИОНОВА, Ф.А., редактор; САХА-РОВА, Н.В., технический редактор.

[Economic geography of the U.S.S.R.; Soviet Socialist republics; Ukrainian, Moldavian, White Russian, Lithuanian, Latvian, Estonian, Karelo-Finnish, Georgian, Azerbaijan, Armenian, Kazakh, Uzbek, Kirghiz, Tajik, turkmen] Ekonomicheskaya geografiya SSSR; Sovetskie sotsialisticheskie Respubliki: Ukrainskaya, Moldavskaya, Belorusskaya, Litovskaya, Latviiskaya, Estonskaya, Karelo-Finskaya, Gruzinskaya, Azerbaidzhanskaya, Armanakaya, Kazakhskaya, Uzbekskaya, Kirgizskaya, Tadzhikskaya, Turkmenskaya. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosvetsheniya RSFSR, 1954. 426 p. [Microfilm]

(Geography, Economic)

(MLRA 8:1)

DAVYDOV, Anatoliy Vasil'yevich; RODIONOVA, F.A., redaktor; RYBIN, I.V.,
tekhnicheskiiy redaktor.

[Lessons in the geography room] Uroki v kabinete geografii.
Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshche-
niia RSFSR, 1955. 67 p. (MIRA 9:4)
(Geography--Study and teaching)

ERDELI, V.G., kandidat pedagogicheskikh nauk; RODIONOVA, F.A., redaktor;
PONOMAREVA, A.A., tekhnicheskii redaktor.

[Geography study plot in the school garden; instructions and methods]
Geograficheskaya ploshchadka na shkol'nom uchebno-opytnom uchastke;
instruktivno-metodicheskoe pis'mo. Izd. 2-oe. Moskva, Gos. uchebno-
pedagogicheskoe izd-vo Ministerstva prosveshcheniya RSFSR, 1955. 72 p.
(MLRA 9:5)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye shkol. 2. Zaveduyushchiy
kafedroy metodiki geografii Moskovskogo gosudarstvennogo pedagogiche-
skogo instituta imeni V.I. Lenina (for Erdeli).

(Geography--Study and teaching)

POLOVINKIN, Aleksandr Aleksandrovich, doktor geograficheskikh nauk, professor; RODIONOVA, redaktor F.A.; SAKHAROVA, N.V., tekhnicheskiy redaktor.

[Geography and drawing; a drawing manual for teachers of geography in secondary schools] Geografiia i risovanie; posobie po risovaniiu dlia uchitelei geografii srednei shkoly. Izd. 3-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1955. 151 p. (MIRA 9:6)

1.Chlen-korrespondent APN RSFSR (for Polevinkin)
(Drawing--Instruction)

ZASLAVSKIY, Iosif Ivanovich; GERASIMOVA, Tam'yana Pavlovna; RODIONOVA,
F.A., redaktor; MAKHOVA, N.N., tekhnicheskii redaktor

[Physical geography; a beginner's course. Textbook for class 5 of
the seven-years and secondary schools] Fizicheskaya geografiya;
nachal'nyi kurs. Uchebnik dlia V klassa semiletnei i srednei shkoly.
Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia
RSFSR, 1955. 160 p. 3 maps (insert). (MLRA 8:7)
(Physical geography)

ZASLAVSKIY, I.I.; RODIONOVA, F.A., redaktor; SMIRNOVA, M.I., tekhnicheskii redaktor

[Assignments for students taking correspondence courses in secondary schools; geography] Zadaniia dlia uchashchikhsia zaочноi srednei shkoly; geografiia, V klass. Sost. I.I.Zaslavskii. Izd. 2-oe. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956 (MLRA 9:9)
62 p.

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye shkol.
(Geography--Study and teaching)

KALININ, Fedor Pavlovich; RODIONOVA, F.A., red.; TSYPP0, R.V., tekhn.red.

[Practical work in physical geography; based on experience] Prakticheskie raboty po fizicheskoi geografii; iz opyta raboty. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 125 p.
(MIRA 11:3)

(Physical geography--Laboratory manuals)

LAGOVSKAYA, Yelena Ivanovna; RODIONOVA, F.A., red.; TYLYAKOVA, N.I.,
red.kart; TSYPO, R.V., tekh.red.

[Union republics of Central Asia; textbook for teachers]
Soiuznye respubliki Srednei Azii; posobie dlia uchitelei.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959.
189 p. (MIRA 12:11)
(Soviet Central Asia--Economic conditions)

SHUVALOV, Yefim Lukich; RODIONOVA, F.A., : 3.

[Economic geography of the U.S.S.R.; a general survey.
Textbook for the 8th grade] Ekonomicheskaiia geografiia
SSSR; obshchii obzor. Uchebnoe posobie dlia VIII klassa.
Moskva, Prosveshchenie, 1965. 93 p. (MIRA 18:7)

KOZLOV, I.V.; FADEYEVA, N.V., retsenzent; FILIPPOVICH, L.S.,
retsenzent; RASSADINA, A.P., red.; RODIONOVA, F.A., red.

[Pictures of the nature of our motherland; reader on the
physical geography of the U.S.S.R.] Kartiny prirody na-
shei Rodiny; kniga dlia chteniia po fizicheskoi geografii
SSSR. Moskva, Izd-vo "Prosveshchenie," 1964. 271 p.
(MIRA 17:7)

1. Nauchnyye sotrudniki Instituta geografii AN SSSR (for
Fadeyeva, Filippovich).

DOLGOPOLOV, Konstantin Vasil'yevich; SOKOLOV, Aleksey Vasil'yevich;
FEDOROVA, Yevgeniya Fedorovna; SKOENIKOV, M.L.,
retsenzent; TYLKINA, M.A., st. nauchn. sotr., retsenzent;
FREYKIN, Z.G., st. nauchn. sotr., retsenzent; RODIONOVA,
F.A., red.; PASHCHENKO, O.V., red. kart; KARPOVA, T.V.,
tekh. red.

[Iron ores of the U.S.S.R.] Zheleznye rudy SSSR; posobie
dlia uchitel'ia. Moskva, Uchpedgiz, 1963. 157 p.
(MIRA 17:2)

1. Glavnyy spetsialist Gosplana SSSR (for Skobnikov).
2. Institut chernoy metallurgii imeni Baykova (for Tylkina).
3. Institut geografii AN SSSR (for Freykin).

POLONSKIY, Mark Leonidovich; ROSTOVTSEV, Mikhail Ivanovich;
ROGOZIN, N.Ye., doktor ekon. nauk, prof., retsenzent;
CHULITSKIY, P.A., zasl. uchitel', retsenzent; SUVOROV,
Yu.M., retsenzent; RODIONOVA, F.A., red.; KOROVINA, K.A.,
red. kart; MAKHOVA, N.N., tekhn. red.

[The White Russian S.S.R.; essay on economic geography.
Textbook for teachers] Belorusskaia SSR; ekonomiko-
geograficheskii ocherk. Posobie dlia uchitelei. Moskva,
Uchpedgiz, 1964. 161 p. (MIRA 17:3)

1. Zaveduyushchiy kafedroy ekonomicheskoy geografii Belorusskogo gosudarstvennogo universiteta imeni V.I.Lenina (for Rogozin). 2. Metodist Ministerstva prosveshcheniya Belorusskoy SSR (for Suvorov).

KARPOV, G.V.; SOLOV'YEV, A.I.; ORLOV, V.I., retsenzent; LAKTIONOVA, P.I., retsenzent; RODIONOVA, F.A., red.; KOZLOVSKAYA, M.D., tekhn. red.

[Reader on the physical geography of the U.S.S.R.; nature pictures from the works of literary travellers, and scientists] Khrestomatia po fizicheskoi geografii SSSR; kartiny prirody iz proizvedenii pisatelei, puteshestvennikov i ucherykh. Posobie dlia uchitelia. Moskva, Uchpedgiz, 1963. 403 p. (MIRA 16:12)

(Physical geography)

GNEVUSHEV, Mikhail Andreyevich; KORZHUYEV, S.S., st. nauchn.
sotr., kand. geogr. nauk, retsenzent; KIND, N.V., kand.
geol.-miner. nauk, retsenzent; VASIL'YEV, A.F., retsenzent;
RODIONOVA, F.A., red.; KISELEVA, M.D., red.kart; KARPOVA,
T.V., tekhn. red.

[Yakut diamonds] Iakutskie almazy. Moskva, Uchpedgiz, 1963.
102 p. (MIRA 16:12)

1. Institut geografii AN SSSR (for Korzhuyev). 2. Yakutskiy
institut usovershenstvovaniya uchiteley (for Vasil'yev).
(Yakutia--Diamonds)

MINTS, Aleksey Aleksandrovich; MALAYEVA, S.L.; LYALIKOV, N.I., prof.,
retsenzent; RODIONOVA, E.A., red.; BORISKINA, V.I., red.
kart; TATURA, G.L., tekhn. red.

[Central Industrial Region; a study of its economic
geography] Tsentral'nyi raion; ekonomiko-geograficheskii ocherk.
Posobie dlia uchitelei. Moskva, Uchpedgiz, 1963. 180 p.

(MIRA 16:9)

(Central Industrial Region--Economic geography)

LYALIKOV, Nikolay Ivanovich; BUKHGOL'TS, O.E.; KOZLOV, M.V., red.;
RODIONOVA, F.A., red.; TYUTYUNNIK, S.G., red. kart; BORISKINA,
V.I., red. kart; TSIRUL'NITSKIY, N.P., tekhn. red.

[Economic geography of the U.S.S.R.; textbook for the ninth
grade of the secondary school] Ekonomicheskaya geografiya
SSSR; uchebnik dlia 9 klassa srednei shkoly. Izd.3. Moskva,
Uchpedgiz, 1959. 342 p. (MIRA 16:7)
(Geography, Economic)

PAVLOV, M.Ya.; RODIONOVA, F.A., red.; SAKHAROVA, N.I., tekhn.
red.

[Geography of the U.S.S.R.; textbook for pedagogical schools]
Geografiia SSSR; uchebnik dlia pedagogicheskikh uchilishch.
Izd.3., dop. i perer. Moskva, Uchpedgiz, 1954. 253 p. maps.
(MIRA 16:7)

(Geography)

POLYAKOV, Andrey Sergeyevich; RODIONOVA, F.A., red.; ZAYTSEVA, K.F.,
red.kart; MAKHOVA, N.N., tekhn. red.

[Geography of the branches of the national economy of the
U.S.S.R. in the seven-year plan] Geografiia otraslei narod-
nogo khoziaistva SSSR v semiletнем plane; posobie dlia uchi-
telei. Moskva, Uchpedgiz, 1962. 207 p. (MIRA 16:5)
(Russia--Industries)

BOGOYAVLENSKIY, Georgiy Pavlovich; RODIONOVA, F.A., red.; KORNEYEVA,
V.I., tekhn. red.

[Physical geography; bibliographical aid for teachers] Fizi-
cheskaia geografiia; bibliograficheskoe posobie dlia uchite-
lei. Moskva, Uchpedgiz, 1963. 207 p. (MIRA 16:6)
(Bibliography--Physical geography)

ROSTOVTSEV, Mikhail Ivanovich; PURIN, Valentin Rudol'fovich;
RODIONOVA, F.A., red.; KOROVINA, K.A., red.kart; SMIRNOVA,
M.I., tekhn. red.

[The Union of Baltic Republics; sketch on their economic
geography]Soluznye respubliky Pribaltiki; ekonomiko-
geograficheskii ocherk; posobie dlia uchitelei. Moskva,
Uchpedgiz, 1962. 217 p. (MIRA 16:1)
(Baltic States--Economic geography)

MASLOV, Yevgeniy Petrovich; RODIONOVA, E.A., red.; OVCHINIKOVA,
V.I., red. kart; KÓZLOVSKAYA, M.D., tekhn. red.

[The Northern Caucasus; study on the economic geography]
Severnii Kavkaz; ekonomiko-geograficheskii ocherk. Posobie
dlia uchitelei. Moskva, Uchpedgiz, 1962. 126 p.

(MIRA 15:10)

(Caucasus, Northern--Economic geography)

KUZNETSOV, Sergey Sergeevich; RASSADINA, A.P., red.; RODIONOVA, F.A., red.; PODOL'SKAYA, M.Ya., red. kart; TSYPPPO, R.V., tekhn. red.

[Historical geology; manual for students of geographical faculties in teachers institutes] Istoricheskaiia geologiia; posobie dlia studentov estestvenno-geograficheskikh fakul'tetov pedagogicheskikh institutov. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1962. 286 p. (MIRA 15:5)
(Geology)

SOLOV'YEV, Vasilii Rodionovich; LAPATINA, Ye.B., kand. geogr. nauk,
red.; RODIONOVA, F.A., red.; BORISKINA, V.I., red. kart;
KOZLOVSKAYA, M.D., tekhn. red.

Leningrad . Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv.
RSFSR, 1961. 82 p. (MIRA 15:2)
(Leningrad--Description)

DANILOV, Andrey Danilovich, kand. geogr. nauk; RODIONOVA, F.A., nauchnyy red.; NEKHLUDOVA, A.S., red. izd-va; RAKITIN, I.T., tekhn. red.

[Geography of the U.S.S.R.; nature and population] Geografiia SSSR; priroda i naselenie. Moskva, Izd-vo "Znanie," 1961. 38 p. (Narodnyi universitet kul'tury: Estestvennonauchnyi fakul'tet, no.21) (MIRA 15:2)
(Geography) (Russia--Population)

GOROSHCHENKO, Vera Pavlovna; RODIONOVA, F.A., red.; DRANNIKOVA, M.S.,
tekhn. red.

[Studying geographical data in elementary schools; textbook
for normal schools] Izuchenie geograficheskikh svedenii v na-
chal'noi shkole; uchebnik dlia pedagogicheskikh uchilishch.
Izd.4., ispr. i dop. Moskva, Gos.uchebno-pedagog. izd-vo M-va
prosv. RSFSR, 1961. 173 p. (MIRA 15:2)
(Geography--Study and teaching).

KNOBEL'SDORF, Eduard Vil'gel'movich; RODIONOVA, F.A., red.; KOROVINA, K.A.,
red. kart; PASHCHENKO, O.V., red. kart; MOKHOVA, N.I., tekhn. red.

[Practical exercises on the economic geography of the U.S.S.R.]
Prakticheskie zaniatia po ekonomicheskoi geografii SSSR. Moskva,
Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1960. 123 p.
(MIRA 14:12)

(Geography, Economic)

LYALIKOV, Nikolay Ivanovich; BUKHGOL'TS, O.E.; RODIONOVA, F.A., red.;
TYUTYUNNIK, S.G., red. kart; BORISKINA, V.I., red. kart;
TSIRUL'NITSKIY, N.P., tekhn. red.

[Economic geography of the U.S.S.R.; textbook for the ninth grade
of the secondary school] Ekonomicheskaya geografiya SSSR: uchebnik
dlya IX klassa srednei shkoly. Izd. 5., ispr. Moskva, Gos. uchebno-
pedagog. izd-vo M-va prosv. RSFSR, 1961. 310 p. (MIRA 14:12)
(Geography, Economic)

ALEKSANDROVA, I.L.; VZOROVA, S.I.; BRAANDES, R.I.; GERASIMOV, I.F.;
DARINSKIY, Anatoliy Viktorovich; KOMLYAKOVA, V.I.; KOSHELEVA,
Ye.S.; LEVINA, B.M.; LIZOGUB, V.K.; RODIONOVA, F.A., red.; TA-
TURA, G., tekhn. red.

[Reader on the economic geography of the U.S.S.R.] Khrestomatia
po ekonomicheskoi geografii BSSR; posobie dlia uchitelei. Mo-
skva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1961.
342 p. (MIRA 14:8)

(Geography, Economic)

DAVYDOVA, Marina Ivanovna, dotsent, kand.geograf.nauk; KAMENSKIY, Aleksandr Iosifovich, dotsent, kand.geograf.nauk; NEKLYUKOVA, Nina Petrovna, dotsent, kand.geograf.nauk; TUSHINSKIY, georgiy Kazimirovich, prof., doktor geograf.nauk; VASIL'YEVA, O.S., red.; RODIONOVA, F.A., red.; CHUVALDIN, A.M., red.kart; KORNEYEVA, V.I., tekhn.red.

[Physical geography of the U.S.S.R.; textbook for students of geography and natural geography faculties of pedagogical institutes] Fizicheskaya geografiya SSSR; posobie dlia studentov geograficheskikh i estestvenno-geograficheskikh fakul'tetov pedagogicheskikh institutov. Moskva, Gos.uchebno-pedagog. izd-vo M-va prosv.RSFSR, 1960. 679 p.

(MIRA 13:12)

(Physical geography)

ZASLAVSKIY, Iosif Ivanovich; ONRASIMOVA, Tat'yana Pavlovna; RODIONOVA,
F.A., red.; ANDREYEVA, K.A., red.kart; MAKHOVA, N.N., tekhn.red.

[Physical geography (beginner's course) textbook for the fifth
grade of a seven-year school and secondary school] Fizicheskaia
geografiia (nachal'nyi kurs); uchebnik dlia V klassa semiletnei
i srednei shkoly. Izd.6. Moskva, Gos.uchebno-pedagog.izd-vo
M-va prosv.RSFSR, 1960. 160 p. (MIRA 13:5)

(Physical geography)

ANDREYEV, Boris Ivanovich; KRAVCHENKO, Dmitriy Vasil'yevich; RODIONOVA,
F.A., red.; VASIL'YEVA, O.S.; TYUTYUNNIK, S.G., red.kart;
KOZLOVSKAYA, M.D., tekhn.red.

[Coal basins of the U.S.S.R.; a manual for teachers] Kamennogol'nye basseiny SSSR; posobie dlia uchitel'ia. Moskva, Gos. uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1958. 175 p.
(Coal mines and mining) (MIRA 12:4)

SUKHORUKOVA, Anastasiya Vasil'yevna; RODIONOVA, F.A., red.; SHCHEPTEVA, T.A.,
tekhn.red.

[Practical work in the geography study plot with 5th and 7th
grade students] Prakticheskie raboty na geograficheskoi ploshchadi
s uchashchimisia V-VII klassov. Moskva, Gos. uchebno-pedagog. izd-vo
Mr-va prosv. RSFSR, 1958. 114 p. (MIRA 12:2)
(Geography--Study and teaching)

RODIONOVA, F.A.

ANDREYEV, B.I., kand. ekonomicheskikh nauk, dots.; LYALIKOV, N.I., kand. . .
geograficheskikh nauk, dots.; NIKITIN, N.P., prof.; NIKOL'SKIY,
I.V., kand. geograficheskikh nauk, dots.; RAKITNIKOV, A.N., kand.
geograficheskikh nauk, dots.; STEPANOV, P.N., doktor geograficheskikh
nauk, prof.; TUTYKHIN, B.A., kand. geograficheskikh nauk, dots.;
CHERDANTSEV, G.N., prof., red.; RODIONOVA, F.A., red.; TYUTYUNNIK,
S.G., red. kart.; MAKHOVA, N.N., tekhn. red.

[Economic geography of the U.S.A.R.; general characteristics and
the geography of branches of the Soviet national economy]
Ekonomicheskaya geografiya SSSR; obshchaya kharakteristika i geografiya
otraslei narodnogo khoziaistva SSSR. Moskva, Gos. uchebno-pedagog.
izd-vo M-va prosv. RSFSR, 1958. 275 p. (MIRA 1F:12)
(Geography, Economic)

BARANSKIY, N.N., red. [deceased]; NIKITIN N.P., prof.;
POKSHISHEVSKIY, V.V., prof., red.; SAUSHKIN, Yu.T., prof.,
red.; RODIONOVA, F.A., red.

[Economic geography in the U.S.S.R.; history and modern
development] Ekonomicheskaya geografiya v SSSR; istoriya i
sovremennoe razvitiye. Moskva, Prosveshchents, 1965. 662 p.
(MIRA 18:12)

ACCESSION NR: AT4014067

S/3072/63/000/000/0124/0135

AUTHOR: Rodionova, G. A.; Finkel'shteyn, Ya. S.; Veyler, S. Ya.; Gurovich, Ye. I.;
Novikov, V. T.; Rozenfel'd, N. B.; El'bert, S. M.; Brazilovskiy, V. I.

TITLE: Investigation of technological lubricants based on salt mixtures for hot rolling of
pipe

SOURCE: Fiz.-khim. zakonomernosti deystviya smazok pri obrabotke metallov davleniyem.
Moscow, Izd-vo AN SSSR, 1963, 124-135

TOPIC TAGS: lubricant, salt mixture, hot rolling, steel pipe, pipe rolling

ABSTRACT: In the hot rolling of pipe on continuous rolling mills with long frames, the
lubrication conditions are unusually difficult. Special lubrication is required to provide
for the proper processing conditions, especially temperatures, to obtain rolled products
and pipe of satisfactory quality. Of the six tested salt-lubricants containing various amounts
of K, Li, Mg or Na oxides or chlorides, the best for the hot rolling of pipe in continuous

Card 1/2

ACCESSION NR: AT4014067

rolling mills proved to be a lubricant containing 40% ZnCl₂, 30% KCl, 30% NaCl, and 10% MgO, plus 45% water (compared to the weight of salts and oxides). The pipe rolling process using 1Kh18N9T steel and high-carbon steel proved satisfactory with this lubricant. The top loadings in the continuous rolling mills were increased by 4.5% as compared with the graphite-mazut lubricant. Pipe rolled with the above-mentioned lubricant showed no intercrystalline corrosion. The etching time of pipe obtained by this process was half that of pipe rolled with the use of graphite-mazut lubricant. The effect of the concentration of MgO, used as a filling component in the lubricant, on its melting point and crystallization was also determined, as well as the effect of the amount of solvent on the consistency of the lubricant and its ability to protect the metal surface. Orig. art. has: 6 figures and 3 tables.

ASSOCIATION: none

SUMMITTED: 00

DATE ACQ: 19Dec63

ENCL: 00

SUB CODE: MM, *IE*

NO REF SOV: 003

OTHER: 000

Card 2/2